

- i) disrupting a fish spermatogonium to produce a milky-white colloid containing DNA;
- ii) adding an alkaline solution of pH 8 to pH 12 that contains not less than 4 M of salts to said milky-white colloid;
- iii) effectuating acylation reaction of a mixture obtained in step ii);
- and
- iv) adding ethanol solution to a mixture obtained in step iii) to precipitate DNA.

REMARKS

Applicants submit a clean version of claim 1 as revised in the previous response filed on November 29, 2002, which complies with 37 CFR §1.121. Applicants respectfully submit that the response filed on November 29, 2002, combined with the foregoing amendment, is fully responsive to the prior Office Action and, thus, request favorable reconsideration and allowance of the pending claims. If there are any issues remaining which the examiner believes could be resolved through either a supplemental response or an examiner's amendment, the examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,

Date

25 March 2003

By

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VERSION SHOWING MARKED UP CHANGES

In the Claims:

1. (Twice Amended) A process for obtaining deoxyribonucleic acid (DNA) from fish spermatogonium, which comprises:

i) disrupting a fish spermatogonium to produce a milky-white colloid containing DNA;

ii) adding an alkaline solution of pH 8 to pH 12 that contains [more than 1] not less than 4 M of salts to said milky-white colloid [to separate DNA from protamines];

iii) effectuating acetylation reaction of a mixture obtained in step ii);
and

iii)] iv) adding ethanol solution to [the] a mixture obtained in step [ii)] iii) to precipitate DNA.